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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

27 SEP 2004

Applicant's or agent's file reference	1	SeeNotificati	onofTransmittalofInternational	Preliminary
03op104p	FOR FURTHER ACTION	Examination	Report (Form PCT/IPEA/416)	
International application No.	International filing date(day/n		Priority date (day/month/yea	
PCT/KR2003/000598	26 MARCH 2003 (26.0		29 MARCH 2002 (29:03.20	102)
International Patent Classification (IPC) or national classification and I	PC		
IPC7 A61K 35/78				ļ
Applicant				
				1
KIM, Sung-Jin				
This international preliminary and is transmitted to the applica	examination report has been pre int according to Article 36.	pared by this Int	ernational Preliminary Examini	ng Authority .
	d of5 sheets, inc	luding this cover	sheet.	
This report is also accom	manied by ANNEXES, i.e., shee	ts of the descripti	on, claims and/or drawings wh	nich have been
amended and are the basis	s for this report and/or sheets co	ontaining rectifica	tions made before this Author	rity (see Rule
	the Administrative Instructions	under the 1 C1).		
These annexes consist of a total	of sheets.	•		
3. This report contains indications	3. This report contains indications relating to the following items:			
I X Basis of the repor	I X Basis of the report			
II Priority				
III X Non-establishmer	nt of opinion with regard to nove	elty, inventive step	and industrial applicability	
IV X Lack of unity of i				
V X Reasoned statem	ent under Article 35(2) with regardantions supporting such statem	ard to novelty, inv ent	entive step or industrial applica	ibility;
VI Certain documen				
VII Certain defects in	the international application			
VIII Certain observati	ons on the international applicat	ion		
	•			
Date of submission of the demand	D	ate of completion	of this report	
		27 M A V 2	.004 (27.05.2004)	
29 OCTOBER 2003 (29.10.2	.003)		004 (21.03.200 1)	
Name and mailing address of the IPI	FA/KR /	Authorized officer		
Korean Intellectual Prog	perty Office		_	们则整则
920 Dunsan-dong, Seo- Republic of Korea	gu, Daejeon 302-701,	YEO, Ho Su	p	と影響
Facsimile No. 82-42-472-7140		Celephone No. 82	-42-481-5627	The same of the sa



Internal aplication No.
PCT/KR2003/000598

I.	_B	1sis	of the report	
1.	W	ith	regard to the elements of the international application:*	•
	X		the international application as originally filed	
	Ē		the description:	, as originally filed
	_	_	pages	filed with the demand
			pages, filed with the letter of	
	۳-	_	the claims:	
	L			, as originally filed
			, as amended (together with any	y statment) under Article 19 , filed with the demand
			pages, filed with the letter of	
	r	_		
	L	لـ	the drawings: pages	, as originally filed
			nages	, filed with the demand
1	_	_	pages filed with the letter of	
		_1	the sequence listing part of the description: pages	, as originally filed
				, filed with the demand
			pages, filed with the letter of	
2	4	tha	th regard to the language, all the elements marked above were available or furnished to this Auth international application was filed, unless otherwise indicated under this item. see elements were available or furnished to this Authority in the following language	which is
			the language of a translation furnished for the purposes of international search (under Rule 23	3.1(b)).
	İ	Ī	the language of publication of the international application (under Rule 48.3(b)).	
	[$\overline{\mathbb{I}}$	the language of the translation furnished for the purposes of international preliminary exam or 55.3).	ination(under Rules 55.2 and/
	3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:			
	ì		contained inthe international application in written form.	
	l		filed together with the international application in computer readable form.	
	ì		furnished subsequently to this Authority in written form.	
	ŀ		furnished subsequently to this Authority in computer readable form	mand the Starteness to the
	ļ		The statement that the subsequently furnished written sequence listing does not go be international applicationas as filed has been furinshed.	
	\		The statement that the information recorded in computer readable form is identical to the been furnished.	written sequence listing has
		_		
1.	4.	ட	The amendments have resulted in the cancellation of:	
			the description, pages	
			the claims, Nos.	
	=		the drawings, sheet	
5.	э.		This report has been established as if (some of) the amendments had not been made, sinc go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	e they have been considered to
		in t	placement sheets which have been furnished to the receiving Office in response to an invitation u this opinion as "originally filed." and are not annexed to this report since they do not contain d 70.17).	ınder Article 14 are referred to n amendments (Rules 70.16
	**	An	y replacement sheet containing such amendments must be referred to under item I and annexed	to this report.



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III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:			
the entire international application,			
X claims Nos. 15-43			
because:			
the said international application, or the said claims Nos. 15-43 relate to the following subject matter which does not require an international preliminary examination (specify):			
The subject-matter of claims 15-43 does not require an international preliminary examination with respect to industrial applicability as it is directed to a method for treatment of the human or animal body by therapy (PCT			
Article 34(4)(a)(i), Rule 67.1(iv)).			
·			
thedescription, claims or drawings (indicate particular elements below) or said claims Nos.			
are so unclear that no meaningful opinion could be formed (specify):			
the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.			
no international search report has been established for said claims Nos.			
 A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: 			
the written form has not been furnished or does not comply with the standard.			
the computer readable form has not been furnished or does not comply with the standard.			



<u> </u>
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IV.Lack of unity of invention				
1.	In response to the invitation to restrict or pay additional fees the applicant has:			
	restricted the claims.			
	$\overline{\mathbf{x}}$	paid additional fees.		
		paid additional fees under protest.		
	一	neither restricted nor paid additional fees.		
2.		This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees:		
3.	This	Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is		
		complied with.		
	X	not complied with for the following reasons:		
		Claims 1-8 and 46 concern a pharmaceutical composition comprising an extract of Liriopsis tuber for protecting brain cells or improving memory. Claims 9-11 concern a foodstuff comprising the composition according to claim 1. Claims 12-14 concern a beverage comprising the composition according to claim 1. The independent claim 44 and 45 concerns the use of an extract of Liriopsis tuber for the preparation of a medicament for preventing or treating neurodegenerative diseases and dementia, respectively.		
		Although claims $1-14$ and $44-46$ are relevant to the composition comprising the same active ingredient, there is no technical relationship among a pharmaceutical composition, foodstuff and beverage, and among neurodegenerative diseases, dementia and memory.		
		Hence, the application contains the following separate groups of inventions not so linked as to form a single general inventive concept (PCT Rule 13.1):		
		 i) Claims 1-8 and 46 ii) Claims 9-11 iii) Claims 12-14 iv) Claim 44 v) Claim 45 		
	4. Coresta	all parts. the parts relating to claims Nos. 1-14, 44-46		

V. Reasoned statement under Article 35(2) with regard to novelty, in	ventive step or industrial applicability;
citations and explanations supporting such statement	

1. Statement		•	
	Claima	1-14, 44-46	<u>Y</u> ES
Novelty (N)	Claims		NO
	Claims		
Itime etca (IS)	Claims	1-14, 44-46	YES
Inventive step (IS)			NO
	Claims		
Industrial applicability (IA)	Claims	1-14, 44-46	YES
industrial approaching (= 5)	Claims		NO
	Cianns		

2. Citations and explanations (Rule 70.7)

The present invention relates to a composition comprising an extract of Liriopsis tuber for protecting brain cells or improving memory.

The following documents have been considered for the purpose of this report:

D1 = KR 2001 - 0110284 A (12. 12. 2001)

 $D2 = KR \ 2001 - 0073614 \ A \ (01.08.2001)$

D1 discloses a beverage comprising an extract of Liriopsis tuber which has hypoglycemic, anti-inflammatory, anti-cancer and anti-glycosuria activity.

D2 discloses a wine comprising Liriopsis tuber.

Even though D1 and D2 are relevant to the present invention, none of them teach or fairly suggest the usefulness of Liriopsis tuber for preventing and treating neurodegenerative diseases caused by brain cell damage and for improving memory.

As a consequence, claims 1-14 and 44-46 meet the criteria set out in PCT Article 33(2)-(4).